

## ABSTRACT

A technique to optimize both the production schedule and the maintenance of plant assets based on predetermined criteria which may be economic or otherwise. In one embodiment the technique receives at least one maintenance trigger (MT) and one production order and evaluates those inputs to propose one or more solutions for the joint scheduling of the asset maintenance and required plant production. In another embodiment a computerized maintenance management system (CMMS) acquires a new MT and proposes a new maintenance schedule. The technique transmits a blocking order to a production scheduling (PS) system for converting the maintenance request into a production schedule. In another embodiment, a CMMS acquires a new MT and asks for confirmation of a time slot to perform the maintenance action. The technique evaluates the priorities and finds based on the predetermined criteria the right time slot and communicates a request for that slot to the PS.